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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
08/650,719	05/20/96	MAILLOUX	J 95-0653
			EXAMINER

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E6M1/1015

ART UNIT	PAPER NUMBER
2318	2

DATE MAILED:
10/15/97

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

OFFICE ACTION SUMMARY

- ☒ Responsive to communication(s) filed on 5-20-96
- ☐ This action is FINAL.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 D.C. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire _____ month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

- ☒ Claim(s) 1-58 is/are pending in the application.
- Of the above, claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☐ Claim(s) _____ is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☒ Claim(s) 1-58 are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftperson's Patent Drawing Review, PTO-948.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
- ☐ received.
- ☐ received in Application No. (Series Code/Serial Number) _____
- ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

- ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- ☐ Notice of Reference Cited, PTO-892
- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☐ Summary, PTO-413
- ☐ Draftperson's Patent Drawing Review, PTO-948
- ☐ Formal Patent Application, PTO-152

--SEE OFFICE ACTION ON THE FOLLOWING PAGES--

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Art Unit: 2318

DETAILED ACTION

Election/Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, 33-35 and 46-50, drawn to specifying burst or pipeline access, classified in class 395, subclass 853.
- II. Claims 11-21, drawn to selection of data paths, classified in class 395, subclass 858.
- III. Claims 22-32, drawn to accessing via a multiplexer, classified in class 395, subclass 871.
- IV. Claims 36-39, drawn to transfer direction selection (i.e., selecting between read and write operations), classified in class 395, subclasses 851 and 853.
- V. Claims 40-45, drawn to the use of hardware pins for mode selection, classified in class 326, subclasses 38 and 47 and class 395, subclass 853.
- VI. Claims 51-58, drawn to the use of an enabling signal (i.e., a strobe to memory), classified in class 365, subclass 193 and class 395, subclass 853.

Art Unit: 2318

2. The inventions are distinct, each from the other because of the following reasons: Inventions I and (II and III and IV and V and VI) are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as selection between burst and pipeline operations, without the selection of data paths, the use of a MUX, selection between read and write operations, the use of hardware pins or the use of an enabling signal. See MPEP § 806.05(d).

3. The inventions are distinct, each from the other because of the following reasons: Inventions II and (III and IV and V and VI) are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as the selection of data paths without the use of a MUX, selection between read and write operations, the use of hardware pins or the use of an enabling signal. See MPEP § 806.05(d).

Art Unit: 2318

4. The inventions are distinct, each from the other because of the following reasons: Inventions III and (IV and V and VI) are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as the use of a MUX without selection between read and write operations, the use of hardware pins or the use of an enabling signal. See MPEP § 806.05(d).

5. The inventions are distinct, each from the other because of the following reasons: Inventions IV and (V and VI) are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention IV has separate utility such as the selection between read and write operations without the use of hardware pins or the use of an enabling signal. The use of pins or a specific enabling signal was not required for the Group IV claims. See MPEP § 806.05(d).

Art Unit: 2318

6. The inventions are distinct, each from the other because of the following reasons: Inventions V and VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention V has separate utility such as the use of hardware pins without the use of an "enabling" signal. No specific signal for activating the pins is specified. See MPEP § 806.05(d).

7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classifications and because the searches required for each group is not required for each of the other groups, restriction for examination purposes as indicated is proper.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

Serial Number: 08/650,719

Page 6

Art Unit: 2318

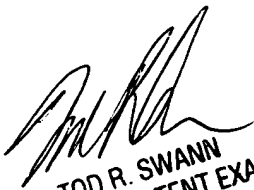
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Peikari whose telephone number is (703) 305-3824.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tod Swann, can be reached at (703) 308-7791. The fax phone number for Art Unit 2318 is (703) 308-6606.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

BSP

B. James Peikari
October 10, 1997


TOD R. SWANN
SUPERVISORY PATENT EXAMINER
GROUP 2300